

Abstract

1 A smoke detection and monitoring arrangement detects surreptitious smoking in various
2 zones in a building, e.g., rest rooms and break rooms, and also detects tampering. Each detection
3 unit has an intake grille leading to a duct which contains an air flow detector, a smoke detector
4 and an optical intrusion or tampering detector. Air flow may be induced by an internal fan, or
5 may result from an optional connection to ventilation ductwork. Air flow, smoke, and tamper
6 signals are fed from each unit to a central control panel, which may include visible indicators and
7 an audible alarm.